IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	Appli	cation o	of:	Kim, et al.			
	Serial	No.:		To be assigned	Art Unit:	To be assig	ned
	Filed:			Herewith	Examiner:	To be assig	ned
	For:			SELECTIVE ETCHING OF CARBON-DOPED LOW-K DIELECTRICS	Attorney De	ocket No.:	007354 ALRT/ETCH DRIE
				INFORMATION DISCLOSU	RE STATEN	MENT	
	P.O. B	nissioner Box 145 ndria, V	0	Patents 2313-1450			
	Sir:			,			
	subject	ed certa t U.S. pa	in in atent	nce with the duty of disclosure provision formation which the Examiner may contapplication. It is requested that the Examine to the examination of the application.	sider materia	l to the exan	nination of the
	1.	Enclos	sures	accompanying this Information Disclos	sure Stateme	nt are:	
		la.	\boxtimes	A list of all patents, publications, applications on sideration by the office.	ications, or o	ther informa	tion submitted for
		1b.	Α	legible copy of :			
				Each U.S. patent application publication	on and U.S. a	nd foreign p	atent;
			\boxtimes	Each publication or that portion which	caused it to	be listed on t	he PTO-1449;
			the	For each cited pending U.S. application claims, and any drawing of the applicatused it to be listed on the PTO-1449 incl	ion, or portion	on of the app	lication which
				all other information or portion which	caused it to b	e listed on th	ne PTO-1449.
		lc.		An English language copy of search reapplication or PCT International Search	port(s) from h Report.	a counterpar	t foreign
		1d.		Explanations of relevancy (ATTACHM abstracts of the non-English language p	IENT 1(d), houblications.	ereto) or En	glish language
2	2.	\boxtimes	Thi	is Information Disclosure Statement is fi Within three months of the filing date of continued prosecution application unde	f a national a	C.F.R. §1.9° application o	7(b): ther than a
				Within three months of the date of entry §1.491 in an international application;	y of the natio	nal stage as	set forth in
			\boxtimes	Before the mailing of the first Office ac	tion on the m	nerits:	

		Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
3.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R. §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.
		(Check either Item 3a or 3b)
	3a.	☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
	3b.	 ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is: ☐ enclosed ☐ to be charged to Pennie & Edmonds LLP Deposit Account No. 16-1150.
		(Item 3b to be checked if any reference known for more than 3 months)
4.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.
		The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: enclosed. to be charged to Pennie & Edmonds LLP Deposit Account No. 16-1150.
	The Co	ertification Statement in Item 5 below is applicable.
5.		Certification Statement (applicable if Item 3a or Item 4 is checked)
		(Check either Item 5a or 5b)
	5a.	In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
	5b.	In accordance with 37 C.F.R. §1.97(e)(2), it is certified that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was known by any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
6.		This application is a continuation application under 37 C.F.R. §1.60 or §1.53(b) or (d).
		(Check appropriate Items 6a, 6b and/or 6c)
	6a.	A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.
	6b.	Copies of publications listed on Form PTO-1449 from prior application Serial

		U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).
	6c.	Copies of the publications listed on Form PTO-1449 were not previously cited in prior application Serial No. , filed on , and are provided herewith.
7.		This is a Supplemental Information Disclosure Statement. (Check Item 7a)
	7a.	This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(f) supplements the Information Disclosure Statement filed on . A bona fide attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on .
8.		In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:
		(Check Item 8a, 8b, or 8c)
	8a.	satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.
	8Ъ.	set forth in the application.
	8c.	enclosed as an attachment hereto.
9.	\boxtimes	The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Applied Materials Deposit Account No. 50-1074.
10.	\boxtimes	No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(2) and (h).
Date:	8/0	Respectfully submitted, 25,436 Robert W. Mulcahy APPLIED MATERIAL, INC. Legal Affairs Department P.O. Box 450A Santa Clara, CA 95052

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute	for form	1449A/PTO		•				Compl	ete if Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number						
				Filing Date First Named Inventor Art Unit					
						Yunsang Kim, et al.			
						To be Assigned			
	(use	as many shee	ets as	necessary)		Exan	niner Name	To be Assigned
Sheet		1	of		2		Attor	ney Docket Number	007354 ALRT/ETCH/DRIE
				L	J.S. P	ATENT	DOCU	IMENTS	
Examiner Initials	Cite No. 1	Document Numb Number - Kind C		known)		olication Da M-DD-YYYY		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
•		US- 5,707,	486		01-	-13-199	98 C	ollins	
		US- 6,168,	726 I	31	01-	-02-200)1 L	i, et la.	
		US- 6,346,	482 I	32	02-	-12-200)2 M	latsumoto, et al.	
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		US- 6,410,	437 E	31	06-	25-200	2 F1	anner, et al.	
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Examiner nilials	Cite No. 1	Foreign Patent Docu Country Code ³ - Nur		nd Code ⁵ (if kno	own)	Publication MM-DD-		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)
	PETER SINGER, Editor-in Chief, August 1, 1999, "Dual-Damascene Challenges Dielectric Etch", http://www.e-
	insite.net/semiconductor/index.asp?layout=articlePrint&articleID=CA165320, last visited 05/29/2003
	"Copper, with and without Damascene", http://www.semiconductor.net/technical/damascene_copper.htm, last visited 07/24/2002
	"Etching of Silicon Nitride", Application of Silicon Nitride, http://courses.nus.edu.sg/course/phyweets/Projects98/etch/si3n4.htm, last visited 07/23/2002
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Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language Translation is attached.

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